

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61B18/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/082587 A1 (NODA WAYNE) 27 June 2002 (2002-06-27) paragraphs '0040!', '0049!', '0055!'; claims 1-6 ---	1-7
X	US 2002/058933 A1 (CHRISTOPHERSON MARK A ET AL) 16 May 2002 (2002-05-16) paragraph '0085! ---	1-30
X	US 5 249 585 A (TURNER PAUL F ET AL) 5 October 1993 (1993-10-05) column 6, line 39 - line 57; figure 1 ---	1-30
X	US 6 620 189 B1 (BLOOM NICOLE DENISE ET AL) 16 September 2003 (2003-09-16) column 5, line 29 - line 35 --- -/--	1-7

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

11 June 2004

Date of mailing of the international search report

17/06/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Mayer-Martenson, E

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 440 157 B1 (BERAN ANTHONY V ET AL) 27 August 2002 (2002-08-27) column 6, line 41 - line 57 -----	1-7

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2002082587	A1	27-06-2002	US 2003114835 A1	19-06-2003
			AU 3250202 A	24-06-2002
			WO 0247742 A2	20-06-2002
			US 2002077680 A1	20-06-2002
US 2002058933	A1	16-05-2002	US 6409722 B1	25-06-2002
			WO 03047446 A1	12-06-2003
			US 2003073989 A1	17-04-2003
			US 2004092926 A1	13-05-2004
			US 2002151884 A1	17-10-2002
US 5249585	A	05-10-1993	US 4967765 A	06-11-1990
			AU 9027191 A	26-05-1992
			CA 2095516 A1	06-05-1992
			EP 0556284 A1	25-08-1993
			JP 6501410 T	17-02-1994
			WO 9207621 A1	14-05-1992
			EP 0462302 A1	27-12-1991
			US 5220927 A	22-06-1993
			US 5344435 A	06-09-1994
US 6620189	B1	16-09-2003	US 6673098 B1	06-01-2004
			AU 8292701 A	05-02-2002
			CA 2416931 A1	31-01-2002
			EP 1301151 A2	16-04-2003
			JP 2004504110 T	12-02-2004
			WO 0207793 A2	31-01-2002
			US 2004050154 A1	18-03-2004
			US 2004039431 A1	26-02-2004
			AU 3843401 A	12-09-2001
			CA 2401222 A1	07-09-2001
			EP 1259204 A1	27-11-2002
			JP 2003524507 T	19-08-2003
			WO 0164146 A1	07-09-2001
			US 2004024437 A1	05-02-2004
			US 2003135252 A1	17-07-2003
US 6440157	B1	27-08-2002	CA 2348707 A1	23-11-2002
			US 6143020 A	07-11-2000